

CLAIMS

1. A computer program product for use with a computer that includes a
5 communication interface for sending and receiving information over a communication
network and that is connected to an uninterruptible power supply (UPS) that monitors and
supplies information regarding power status associated with the UPS, the computer
program product residing on a computer-readable medium and comprising computer-
executable instructions for causing the computer to:
10 process data received from the UPS to which the computer is coupled to produce
indicia of changes in power status associated with the UPS;
provide the indicia of changes in power status associated with the UPS to the
communication interface destined for a remote device; and
provide geographic information associated with the indicia of changes in power
15 status that indicates a geographic location associated with the UPS.
2. The computer program product of claim 1 further comprising instructions
20 for causing the computer to process data entered by a user of the computer to produce the
geographic information.
3. The computer program product of claim 1 further comprising instructions
for causing the computer to process external power-status information received via the
25 communication interface and to display indicia of power status and at least one
geographic region associated with the indicia of power status in accordance with the
processed external power-status information.

4. The computer program product of claim 3 further comprising instructions for causing the computer to display indicia of weather condition associated with each of the at least one geographic region.

5 5. The computer program product of claim 3 further comprising instructions for causing the computer to store data regarding changes in power status for historical display associated with at least one period of time.

6. The computer program product of claim 1 further comprising instructions
10 for causing the computer to display an indication of a quantity of UPSs experiencing power failures in the geographic region.

7. An apparatus for communicating via a communication network with multiple remote devices connected to uninterruptible power supplies (UPSs) that monitor
15 and supply information regarding power status associated with the UPSs, the apparatus comprising:

a communication interface configured to transfer data with the communication network; and

a processor coupled to the communication interface and configured to:

20 collect power-status data and associated geographic data received from the remote devices via the communication interface, the power-status data indicating power status of the UPSs associated with the remote devices providing the power-status data, the geographic data indicating geographic locations associated with the UPSs;

25 analyze the power-status data and associated geographic data to determine power status of geographic regions indicated by the geographic data in accordance with the corresponding power-status data; and

send indicia of the determined power status of at least one geographic

region toward at least one of the remote devices via the communication network.

8. The apparatus of claim 7 wherein the processor is configured to collect weather data for each region and to provide indicia of the weather for the at least one geographic region to the at least one of the remote devices.

9. The apparatus of claim 7 wherein the processor is further configured to store the determined power status and to provide historical power status for the at least one geographical region.

10. The apparatus of claim 9 wherein the processor is configured to determine at least one of percentages and numbers of remote devices in a region whose power is anomalous.

11. The apparatus of claim 7 wherein the processor is configured to send the determined power status data at least one of periodically and in response to a received indication of a power status change from at least one of the remote devices.

12. The apparatus of claim 7 wherein the processor is further configured to monitor heartbeat signals from the remote devices and provide indicia of failures if the processor fails to detect at least one heartbeat signal in a threshold amount of time.

13. A method of indicating power status in multiple geographic regions, the method comprising:
receiving, at a plurality of devices, indicia of power status from multiple uninterruptible power supplies (UPSs) coupled to the devices;
determining power-status data from the received indicia;
receiving power-status data from the plurality of devices coupled to the UPSs via

a communication network;

analyzing the power-status data according to multiple geographic regions associated with the power-status data; and

5 sending indicia of power status associated with the multiple geographic regions toward at least one of the plurality of devices via the communication network.

14. The method of claim 13 further comprising determining weather for the multiple geographic regions and sending indicia of the weather in the respective regions toward at least one of the plurality of devices via the communication network.

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15. The method of claim 13 wherein the sending occurs at least one of periodically, in response to receiving an indication of a power-status change from at least one of the plurality of devices, and on demand by a user-initiated action.

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16. The method of claim 13 further comprising displaying the indicia of power status at the at least one of the plurality of devices to indicate power status of the multiple geographic regions.

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17. The method of claim 16 wherein the displaying comprises displaying a map of the multiple geographic regions and associated indicia of power status.

18. The method of claim 13 further comprising displaying the indicia of power status at the at least one of the plurality of devices to indicate power status of at least one of the multiple geographic regions in any of a variety of resolutions of geography.

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19. The method of claim 18 further comprising displaying at least one of a number and a percentage of UPSs in the at least one geographic region whose power is anomalous.

20. The method of claim 13 further comprising displaying the indicia of power status at the at least one of the plurality of devices to show power status over any of a selected variety of historical time periods.

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21. The method of claim 13 further comprising sending an indication to a selected one of the plurality of devices indicating a local power anomaly in response to determining that relatively few power anomalies are associated with a geographic region associated with the selected device.

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22. In combination:
an uninterruptible power supply (UPS); and
a device for use with a communication interface for sending and receiving information over a communication network, the device being configured to:

15 determine, from information received from the UPS, indicia of power status at the UPS;

provide indicia of changes in power status at the UPS to the communication interface destined for a remote server; and

20 provide geographic information associated with the indicia of changes in power status that indicates a geographic location of the UPS.

23. The combination of claim 22 wherein the device comprises a computer program product residing on a computer-readable medium and comprising computer-readable and computer-executable instructions for causing a computer to provide the
25 indicia and to provide the geographic information.

24. The combination of claim 22 wherein the device comprises a card configured to be physically and electrically coupled to the UPS and includes the communication interface.